

PRELIMINARY AMENDMENT  
New National Stage Entry Application of  
PCT/FR2005/000774

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (Currently Amended) A valve ~~(110)~~ comprising a shutter ~~(20)~~ placed in a chamber (12) provided in a valve body, an end of said chamber being provided with a seat ~~(116)~~ against which a flap-forming part of the shutter rests in a closed position of the valve and is remote therefrom in ~~a~~ an open position of the valve and a magnetic control device including shutter magnetic drive means ~~(130)~~ disposed outside the chamber for moving it either to its closed position or to its open position, ~~characterized in that the~~ wherein said magnetic control device further comprises at least one ball ~~(123)~~ which is made of a magnetic material, disposed in ~~the~~ said chamber and which is coupled to ~~the~~ said external magnetic drive means ~~(130)~~, said ball being associated with ~~the~~ said shutter in such a way that said shutter is driven in ~~the~~ said chamber ~~(12)~~ when said ball is itself moved by ~~the~~ said external magnetic drive means.

2. (Currently Amended) The valve as claimed in claim 1, ~~characterized in that~~ the wherein said ball ~~(123)~~ turns freely relative to ~~the~~ said shutter ~~(20)~~.

3. (Currently Amended) The valve as claimed in ~~either claim 1 or claim 2,~~ characterized in that the wherein said shutter ~~(20)~~ includes at least one housing ~~(124, 824)~~ in

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which at least one ball is placed.

4. (Currently Amended) The valve as claimed in ~~any one of claims 1 to 3~~claim 1, ~~characterized in that it is~~wherein said valve is adapted to center ~~the said~~ shutter in ~~the said~~ valve body.

5. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein said shutter is associated with at least two balls that cooperate ~~with it~~therewith and ~~the said~~ valve body to provide centering by ~~the said~~ external magnetic drive means.

6. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein centering means (324) are disposed inside ~~the said~~ chamber, on ~~its~~the lateral wall thereof, so as to cooperate with ~~the said~~ shutter.

7. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein centering means (324) are disposed on ~~the said~~ shutter so as to cooperate with ~~the said~~ internal lateral wall of ~~the said~~ chamber.

8. (Currently Amended) The valve as claimed in ~~either claim 6 or claim 7~~, ~~characterized in that~~wherein said centering means are fins ~~(524; 825)~~.

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9. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that~~wherein said shutter is associated with at least two balls  
offset longitudinally relative to the axis of ~~the~~said shutter.

10. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that~~wherein at least one section of ~~the~~said shutter is associated  
with at least two balls that are offset angularly relative to each other.

11. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that~~wherein two separate sections of ~~the~~said shutter are each  
associated with at least two balls disposed so that the angular offset between two successive balls  
of a same section is less than or equal to  $180^{\circ}$ .

12. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that~~wherein the (n) balls of a section are offset angularly by an  
angle equal to  $360^{\circ}/n$ .

13. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that~~wherein at least one fluid passage groove ~~(113)~~ is machined  
in the inside wall of said chamber ~~(12)~~ and a rolling area ~~(114)~~ is formed on either side of said  
groove.

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14. (Currently Amended) The valve as claimed in ~~any one of the preceding~~  
~~claims~~claim 1, ~~characterized in that the~~wherein said drive means (130) placed outside ~~the said~~  
valve body are adapted to be moved along a direction (133) parallel to the longitudinal axis (A)  
of ~~the said~~ valve so as to drive the at least one ball (123) simultaneously.

15. (Currently Amended) The valve as claimed in claim 14, ~~characterized in that~~  
~~the~~wherein said drive means (130) comprise at least one magnet.